

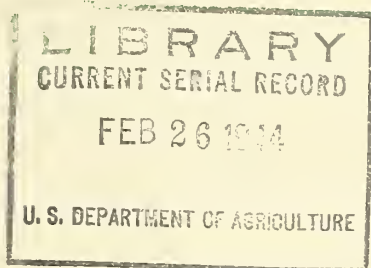
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Graduate School

UNITED STATES DEPARTMENT OF AGRICULTURE



Spring Semester

1943



1944

United States Department of Agriculture
Graduate School

Spring Semester

This Bulletin contains a partial list of courses available in the spring semester. The academic level, instructor, fee, and hours are indicated for each course. For complete details write for (please do not telephone), or stop by and get, the 1943-44 ANNOUNCEMENT OF THE GRADUATE SCHOOL. Use the form on page 8.

REGISTRATION

Opens January 10
Closes February 12

CLASSES BEGIN

the week of Monday,
January 31

BUSINESS OFFICE

Rm. 1031, South
Agriculture Bldg.
Independence Ave., SW
between 12th and 14th

HOURS

8:40 A.M. to 6:20 P.M.
(1 P.M. Saturday)

REGISTRATION is open until February 12 but students should register as early as possible. When the limitation for each course is reached, registration in that course is closed. Students are not admitted to class until registration has been completed and fees paid. In certain instances enrollment for credit after February 12 is permitted; a late fee of \$1 per course is charged after February 12.

REFUND of fees, less a \$3 registration fee, is permitted in the case of withdrawals made before 1 P.M., February 12. Refund requests received after this date will not be approved unless the student is officially transferred out of Washington or leaves Washington to enter the armed forces.

SPECIAL COUNSELING on courses and programs of study will be provided (after 5:30 P.M. in the School office) by representatives of the major departments, from January 24 to February 4. Officers of the School and instructors are always glad to assist students in planning programs.

COURSE SYMBOLS

Courses 1- 99:—non-academic

Courses 100-499:—strictly undergraduate

Courses 500-699:—graduate and advanced undergraduate

Courses 700-UP:—graduate (may be taken by undergraduates only with written permission of the Director)

Course numbers followed by (a) are first-half of that course, or by (b) are second-half.

Year courses may be entered at the spring semester by new students who have the first half or its equivalent.

BIOLOGICAL SCIENCES

SPRING SEMESTER COURSES

556. **Plant Biophysics** (Greathouse) Th 5-7 \$14
208. **Food, Nutrition, and Health** (Callison) Th 6-8 \$12

YEAR COURSES (credit each semester)

784. **Genetics** (Ellinger) M 7-10 \$21 a sem.
209. **Systematic Botany** (Blake) M 6-8 \$12 a sem.

ENGINEERING AND MECHANICAL ARTS

SPRING SEMESTER COURSES

179. **Aircraft Power Plants** (Briggs) Th 6-8 \$12
181. **Architectural Drafting** (Edick) Tu-Th 6-8 \$20
182. **Mechanical Drafting** (Edick) Tu-Th 6-8 \$20
185. **Pencil Sketching and Freehand Drawing** (Cadmus)
M-W 6-8 \$15
190. **Textile Design and Fabric Development** (Sokoloff)
M-W 8-9:30 \$18
192B. **Applied Photography** (Purdy) M 6-8 \$12
677. **Public Power** (Blalock and King) Tu 7:30-9:30 \$14

YEAR COURSES (credit each semester)

175. **Naval Architecture** (Wright) Tu 6-8 \$12 a sem.
176. **Ship Construction** (Wright) Th 6-8 \$12 a sem.
177. **Acrodynamics** (Koneczny) M 6-8 \$12 a sem.
178. **Airplane Stress Analysis** (Koneczny) Tu 6-8 \$12
a sem.
183. **Surveying** (Schlatter) Tu-Th 6-8 \$24 a sem.
186. **Interior Decoration** (Garrels) Sec. I W 6-7; Sec. II Tu
8:30-9:30; Sec. III W 7-8 (First Semester Work) \$6
a sem.
188. **Glass Blowing** (Clark) Sec. I M-W 6-7:30; Sec. II
Tu-Th 6-7:30 \$18 a sem.
678. **Water Power Engineering** (Ross) M-W 6-7:30 \$21
a sem.
857. **Electric Utility Engineering** (Jessel and Lynott) Tu
7:30-9:30 \$14 a sem.
366. **Original Cost Accounting for Electric and Gas
Utilities** (Smith and Rainwater) M 7:30-10:30 \$18
a sem.
680. **Public Utility Evidence** (McAllister and Gatchell) W
7:30-10:30 \$21 a sem.

LANGUAGES AND LITERATURE

NOTE: *Course numbers followed by (a) are first-half of that course, or by (b) are second-half.*

SPRING SEMESTER COURSES

223. **Descriptive English Grammar** (Harman) M 6-8 \$12
224. **Creative Writing** (Wing) Th 6-8 \$12
226. **Writing for Official Purposes** (Chew) F 6-8 \$12
565. **Writing of Documented Papers** (Humphrey) Th 6-8
\$14
229. **Effective Speaking** (Provensen) Tu 6-8 \$12
232. **Voice and Remedial Speech** (Hutcheson) Tu 6-8 \$15
43. **Personal Development** (Provensen) W 6-8 \$12
567. **Principles of Persuasion** (Oliver) F 6-8 \$14
235. **Conversational Arabic** (Tannous) F 8-10 \$12
263. **German Translation** (Braunstein) W 6-9 \$18

291. **Intermediate Portuguese** (p'Eca) M-W 6-7:30 \$18
 295a. **Elementary Russian** (Preveden) Th 6-9 \$18
 298. **Technical Russian** (Bensin) F 6-8 \$12
 300a. **Elementary Spanish** Sec. I M 6-8; Sec. II 8-10 (Sainz); Sec. III Tu 6-8 (Guest); Sec. IV Tu 8-10 (DeRosa); Sec. V W 6-8 (Olds); Sec. VI W 8-10 (Sainz) \$12
 300b. **Elementary Spanish** Sec. I M 6-8 (Guest); Sec. II M 6-8 (O. Russell); Sec. III M 6-8 (Olds); Sec. IV Tu 8-10 (Batista); Sec. V Tu 8-10 (Parmentier) Sec. VI W 6-8 (M. Johnston); Sec. VII W 6-8 (Parmentier); Sec. VIII W 8-10 (M. Johnston) \$12
 301a. **Intermediate Spanish** (Nichols) W 6-8 \$12
 301b. **Intermediate Spanish** (Nichols) F 6-8 \$12
 44. **The Classics** (Scofield) Tu 8-10 \$15

YEAR COURSES (credit each semester)

222. **Composition and Rhetoric** (Harmán) Th 6-8 \$12 a sem.
 227. **Workshop in Government Radio Programs** (Millson) M 6-9 \$18 a sem.
 233a. **Elementary Arabic** (Tannous) F 6-8 \$12 a sem.
 233b. **Elementary Arabic** (Tannous) Th 6-8 \$12 a sem.
 238a. **Elementary Chinese** (Tsiang) M-F 6-8 \$24 a sem.
 238b. **Elementary Chinese** (Tsiang) Tu-Th 6-8 \$24 a sem.
 243. **Elementary Dutch** (Kuyper) Th 6-8 \$12 a sem.
 248. **Elementary Czech** (Marsalka) Tu-Th 6-7:30 \$18 a sem.
 249. **Intermediate Czech** (Marsalka) W 6-7:30 Th 7:30-9 \$18 a sem.
 253a. **Elementary French** (Humphrey) M-W 8-9:30 \$18 a sem.
 253b. **Elementary French** (Humphrey) M-W 6-7:30 \$18 a sem.
 254. **Intermediate French** (Humphrey) F 6-9 \$18 a sem.
 255. **Conversational French** (Grigaut) Tu 6-9 \$18 a sem.
 259a. **Elementary German** (Lederer) F 6-9 \$18 a sem.
 259b. **Elementary German** (Lederer, Leineweber) M 6-9 \$18 a sem.
 261. **Conversational German** (M. Bauer) M 6-9 \$18 a sem.
 265. **Elementary Hindi** (Gogate) M 6-9 \$18 a sem.
 268. **Elementary Hindustani** (Samras) F 6-9 \$18 a sem.
 270a. **Elementary Italian** (DeRosa) M 6-9 \$18 a sem.
 270b. **Elementary Italian** (Maiolatesi) Tu-Th 6-7:30 \$18 a sem.
 271. **Intermediate Italian** (Maiolatesi) W 6-9 \$18 a sem.
 272. **Conversational Italian** (Maiolatesi) F 6-8 \$12 a sem.
 275a. **Elementary Japanese** (Yoshioka) Tu-Th 7:45-9:15 \$18 a sem.
 275b. **Elementary Japanese** (Yoshioka) Tu-Th 6-7:30 \$18 a sem.
 278. **Technical Japanese** (Yoshioka) F 6-9 \$18 a sem.
 280. **Elementary Malay** (Tsiang) M-F 8-9:30 \$18 a sem.
 284. **Elementary Polish** (Braunstein) M 6-9 \$18 a sem.
 290. **Elementary Portuguese** (p'Eca) Tu-Th 6-7:30 \$18 a sem.
 295b. **Elementary Russian** (Preveden) Sec. I M 6-9; Sec. II Tu 6-9; Sec. III F 6-9 \$18 a sem.
 296. **Intermediate Russian** (Saharov) W 6-9 \$18 a sem.
 302. **Spanish Conversation and Literature** (Giro) Sec. I M 6-8; Sec. II Th 6-8 \$12 a sem.
 304. **Commercial Spanish** (Lever) F 6-9 \$18 a sem.

MATHEMATICS AND STATISTICS

SPRING SEMESTER COURSES

1. Review of Mathematics (Schell) Tu 6-9 \$18
103. Trigonometry and Analytic Geometry (Graves) M 6-8 \$12
701. Coordinate Geometry and Vectors (Littauer) Tu 7:30-9:30 \$14
123. Survey of Statistics (Steinberg, Hoeber) Th 7-10 \$18
124. Graphic Methods for Presenting Statistical Data (Hainsworth) M 6-9 \$12
- 127^a. Introduction to Statistical Analysis (Purves) Th 6-8 \$12
- 127^b. Introduction to Statistical Analysis (Tepping, Staudt) W 8-10 \$12
128. Machine Tabulation (Kaufman) W 7-9 \$9
129. Punch Card Tabulation Procedures (McPherson) Th 6:30-8:30 \$9
130. Advanced Study of Tabulating Equipment (Kaufman) F 7-9 \$9
721. Operation of Statistical Studies (Staudt) W 7-10 \$21
515. Correlation Analysis (Hagood) Tu 7-9 \$14
725. Introduction to Mathematical Statistics (Deming) Th 7-10 \$21
- *704. Interpolation, Approximation, and Mechanical Quadrature (Shohat) F 7-9 \$10

YEAR COURSES (credit each semester)

500. Advanced Calculus (Winston) W 8-10 \$14 a sem.
501. Intermediate Algebra (Finan) F 6-8 \$14 a sem.
125. Statistics for Beginners (Jaffe) Th 6-8 \$12 a sem.
511. Graphic Correlation (Bean, Smithies) W 8-10 \$14 a sem.
516. Intermediate Statistics (Tepping) M 6-8 \$14 a sem.
730. Psychometric Methods and Theory (Richardson) F 6:30-8:30 \$14 a sem.
735. Theory of Sample Surveys (Madow, Hurwitz) W 8-10 \$14 a sem.
739. Multivariate Analysis (Girshick) M 7-10 \$21 a sem.

OFFICE TECHNIQUES AND OPERATIONS

SPRING SEMESTER COURSES

408. Administrative Procedure (Hickey, R. R. Evans) Sec. I Tu 6-8; Sec. II F 6-8 \$12
409. Administrative Procedure (Gordon, Thorson) F 6-8 \$12
410. Federal Auditing Procedure (Cruikshank, Kyttle) Tu 6-8 \$12
412. Federal Accounting Procedure (W. D. Patrick, Grant) Tu 6-8 \$12
413. Office Management (Braun) F 6-8 \$12
414. Federal Personnel Procedure (Mohagen) F 6-8 \$12
417. Federal Communications and Records Management (Donaldson, Muller, C. T. Smith) Tu-F 6-7:30 \$12
418. Practical English Usage (Williams) Tu 6-8 \$12
419. Vocabulary Building (Pease) M 6-8 \$12
420. Government Letter Writing (Samson) Tu 6-8 \$12
421. Workshop in Effective Government Writing (White) M 6-8 \$12

426. **Advanced Secretarial Practices** (Coffman) Th 6:30-8:30 \$12
429. **Beginning Gregg** (Functional) (Lamb) M-Tu-Th 6:30-7:30 \$18
428. **Beginning Gregg** (Manual) (Evans) Tu-W-F 6:30-7:30 \$18
430. **Intermediate Gregg** (Functional) (A. Patrick) M-Tu-Th 7:30-8:30 \$18
431. **Gregg, 70 to 100 Words** (Coffman) Tu 6-8 \$12
433. **Pitman, 70 to 100 Words** (Barry) Tu 6-8 \$12
432. **Gregg, 100 to 130 Words** (A. Patrick) W 6:30-8:30 \$12
434. **Pitman, 100 to 130 Words** (Barry) F 6-8 \$12
435. **Reporting—Gregg, 150 to 175 Words** (Romagna) M-W 7-9 \$24
436. **Advanced Reporting—Gregg, 175 Words and Up** (Romagna) M-W 7-9 \$24
439. **Advanced Shorthand in Spanish** (G. Bauer) Tu 6:30-8:30 \$12
87. **Multilith Press Operation** (Harbin) Tu 6:30-9:30 \$10
88. **Photostat Operation** (Purdy) Tu-Th 6-8:30 \$10

YEAR COURSES (credit each semester)

411. **Auditing Procedure** (Cruikshank) M 6-8 \$12 a sem.

PHYSICAL SCIENCES

SPRING SEMESTER COURSES

145. **Navigation** (Lokerson) F 6:30-9:30 \$18
146. **Piloting** (Hann) Tu 7:30-10:30 \$18
526. **Advanced Physical Metallurgy** (Loring) W 8-10 \$14
766. **Engineering Alloys** (Loring) M 8-10 \$14
531. **Soils: Their Morphology, Genesis, and Classification** (Kellogg) Tu-Th 6-7:30 \$21
165. **Advanced Hydrology** (F. F. Snyder) Th 6-8 \$12

YEAR COURSES (credit each semester)

144. **History of Science** (Heyl) W 7-9 \$12 a sem.
147. **General (Inorganic) Chemistry** (Carter) F 6-8 \$12 a sem.
148. **Organic Chemistry** (Bowen) Th 6-8 \$12 a sem.
149. **Physical Chemistry** (Hamer) Tu 6-8 \$12 a sem.
522. **Physiological Chemistry** (Calvery) W 6-8 \$14 a sem.
762. **Electrochemistry** (Hamer) F 6-8 \$14 a sem.
769. **Electrical Oscillations** (Cohen) Tu 6-8 \$14 a sem.
768. **Heaviside's Electrical Circuit Theory** (Cohen) Th 6-8 \$14 a sem.
162. **Principles of Meteorology** (C. B. Johnson) Tu 6-8 \$12 a sem.
155. **Elementary Synoptic Weather Analysis** (Showalter, W. M. Rowe) W 6-9 \$18 a sem.
159. **Physical and Synoptic Meteorology** (Shands) M 6-8 \$12 a sem.
166. **Introduction to Dynamic Meteorology** (Walsh) W 6-8 \$12 a sem.
529. **Weather Analysis and Forecasting** (Showalter, Pierce) Tu 6-9 and Th 6-7 \$24 a sem.
153. **Introductory College Physics** (Kennard) Tu-F 6:30-8:30 \$21 a sem.

PUBLIC ADMINISTRATION

SPRING SEMESTER COURSES

344. **Introduction to Public Administration** (J. Russell)
W-F 6-7:30 \$18
618. **Management and the Worker in the Public Service**
(Stewart) M 6:30-8:30 \$14
- 626A. **Federal Administrative Management** (Van Dyke)
W 6:30-8:30 \$14
- 626B. **Federal Administrative Management** (Stewart) W
6:30-8:30 \$14
623. **Science of Management** (Schubach) Th 6-8 \$14
- 621B. **Advanced Organizational and Procedural Analysis**
(Pois) F 6-8 \$14
661. **Personnel Administration** (To be announced) M 6-8
\$14
842. **Personnel Administration** (Kroeger) (For CAF-7 or
above) M 6-8 \$14
- 659A. **Federal Position Classification** (Hill) F 6-8 \$14
- 659B. **Federal Position Classification** (Stahl) (For CAF-7
or above) M 6:30-8:30 \$14
627. **Advanced Federal Position Classification** (Buckley,
Cooper) M 6-8 \$14
630. **Selection and Placement** (McLean) Tu 6:30-9:30
\$21
841. **Media and Methods in Public Relations** (Wall) Tu
8-10 \$14
636. **Budgetary and Financial Administration: Budget
Execution** (Jump, Lewis, etc.) Th 6-8 \$14
637. **Governmental Purchasing** (S. A. Snyder, Knudsen)
F 6-8 \$14
638. **Government War Contracts** (Nutting) Tu 6-8 \$14
- 352A. **Principles of Accounting—First Half** (W. H. Rowe,
Brownold) M 6-9 W 6-7 \$18
- 352B. **Principles of Accounting—Second Half** (McShea)
Tu 6-9 Th 6-7 \$18
354. **Federal Government Accounting** (Quigley) W 6-9
\$18
643. **Auditing** (Bachmann) Tu 6-9 \$21
644. **Mathematics of Finance** (W. H. Rowe) Tu-Th 6-7:30
\$21
- * **Accounting Systems of the United States Govern-
ment** (Bartelt) Tu 8:20-10:30 \$30

YEAR COURSES (credit each semester)

617. **Administrative Law and Procedure** (Sellers, Nut-
ting) W 6-8 \$14 a sem.
353. **Second Year Accounting** (Fisher) M 6-9 \$18 a sem.

SOCIAL SCIENCES

SPRING SEMESTER COURSES

330. **Economic Warfare** (Wasserman) Tu-Th 6-7:30 \$18
331. **Current Land Policies** (V. W. Johnson, Timmons)
Th 6-8 \$12
579. **Research Methodology in Economics** (Wermel) M
8-10 \$14
809. **Price Analysis** (Thomsen) M-W 6-7:30 \$21
824. **War and Post-War Food Policy** (Waugh, Allen) Th
6-8 \$14
- * **Money and Banking** (Mann) M 8:20-10:30 \$30
835. **Agricultural Cooperation** (Fetrow, Hedges) Tu 6-8
\$14

581. **Comparative World Agriculture** (Whipple) Tu-Th 6-7:30 \$21
591. **Marketing Regulatory Activities in the Department of Agriculture** (Newell) W 6-8 \$14
587. **Seminar in Land Economics Research** (V. W. Johnson) Tu 6-8 \$14
592. **Farm Labor Problems** (Ham) M-W 6-7:30 \$21
593. **Labor and Social Legislation** (Ziskind) M 8-10:30 (18 wks.) \$21
594. **Settlement of Labor Disputes** (Ziskind) W 8-10:30 (18 wks.) \$21
- * **Labor and the Economic Order** (Peck) W 6:10-8:20 \$30
811. **Post-War Economic Problems** (Wermel) M 6-8 \$14
607. **Problems of International Organization** (Viton) W 6-8 \$14
601. **Problems of Nationalism in the East and the West** (Gogate) W 6-8 \$14
822. **Social Psychology** (Taylor, Bell, Raper) Tu 6-8 \$14
602. **The Southwest Pacific** (Tsiang) W 6-8 \$14
609. **The Far East** (Gewehr) Th 6-8 \$14
599. **The Balkans** (Whipple) F 6-8 \$14
612. **Japan** (Yoshioka) W 6-8 \$14
337. **Principles of Transportation** (Snell) Tu 6-9 \$18
615. **Freight Rates** (Wilson, Gruber) M 6-9 \$21
806. **Wartime Transportation Problems** (Miller) W 6-8 \$14
826. **Traffic Management** (Wilson) Th 6-9 \$21
- * **Basic Problems in Transportation and Communications** (Homberger) Th 6:10-8:20 \$30
- * **Economic Geography and Transportation of Latin America** (Homberger) M 6:10-8:20 \$30

YEAR COURSES (credit each semester)

328. **Principles of Economics** (Thomsen) Tu-Th 6-7:30 \$18 a sem.
597. **History of Economic Thought** (Wasserman) M-W 6-7:30 \$21 a sem.
810. **Economics of Imperfect Competition** (Wermel) W 6:30-9 (18 wks.) \$21 a sem.
- * **Economic Theory** (Piquet) Th 8:20-10:30 \$30 a sem.
- * **Contemporary Economic Thought** (Piquet) Th 6:10-8:20 \$30 a sem.
605. **The Philippines** (Ruiz) M 6-8 \$14 a sem.
814. **Latin America** (Taylor, Loomis, T. L. Smith) M 6-8 \$14 a sem.
611. **La America Latina y los Estados Unidos** (Green) M 8-10 \$14 a sem.

* Offered cooperatively with The American University.

The Graduate School, Department of Agriculture
Washington 25, D. C.

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